CLAIMS

1. An autonomous operation control system comprising:

a monitoring apparatus that is provided at a first remote location, and acquires image information on a photographic subject, the monitoring apparatus including

a shooting unit that performs shooting of the photographic subject;

a photographic-subject detecting unit that detects the photographic subject; and

a signal generating unit that generates an alarm signal; and

an autonomous operation controller that is provided at a second remote location, and remotely controls the monitoring apparatus, wherein

the autonomous operation controller includes a function of automatically operating the shooting unit and the signal generating unit based on photographic information acquired by the monitoring apparatus to photograph an image and generate a signal.

2. An autonomous operation control system comprising:

a monitoring apparatus that is provided at a first remote location, and acquires image information on a photographic subject, the monitoring apparatus including

a shooting unit that performs shooting of the photographic subject;

a photographic-subject detecting unit that detects the photographic subject; and

a signal generating unit that generates an alarm signal; and

an autonomous operation controller that is provided at a second remote location, and remotely controls the monitoring apparatus, wherein

a plurality of the shooting units are prepared in a photographic subject area, and

the shooting unit includes a function of collecting information on the photographic subject by, when one of a plurality of monitoring apparatuses detects a target that intrudes in the photographic subject area, photographing the target from multiple directions, tracking and monitoring the target, and zooming-in the photographic subject using a zoom lens.

3. The autonomous operation control system according to claim 1 or 2, wherein, when the target that intrudes in the photographic subject area is detected, the shooting unit zooms in the target from the multiple directions using a zoom function.

4. The autonomous operation control system according to claim 1 or 2, wherein the autonomous operation controller automatically operates the shooting unit and the signal generating unit based on photographic data and signal data acquired by the monitoring apparatus

to generate the image information on the photographic subject and the signal.

5. The autonomous operation control system according to claim 1 or 2, wherein the autonomous operation controller further includes a storage device that stores the image information photographed by the shooting unit and an external storage device.

6. The autonomous operation control system according to claim 1 or 2, wherein

images photographed by the shooting unit are classified according to recording time and stored in the storage device or the external storage device provided at a different location, and

a specific person is allowed to view the image data through an authentication function.

7. The autonomous operation control system according to claim 1 or 2, wherein the autonomous operation controller transmits a signal based on the image from the monitoring apparatus and information from a sensor, and gives an instruction to a subject based on the signal.

8. The autonomous operation control system according to claim 1 or 2, wherein the autonomous operation controller further includes

a control function of controlling the photographic subject by the shooting unit to dynamically determine a photographic direction using

the image information acquired from a plurality of locations; and

a simultaneous photographing function of photographing the photographic subject from the multiple directions simultaneously.

9. The autonomous operation control system according to claim 1 or 2, wherein the autonomous operation controller further includes

a plurality of monitoring apparatuses disposed on a site of the photographic subject, and

a function of performing overall control of the shooting units and sensors through the Internet.

10. The autonomous operation control system according to claim 1 or 2, wherein the autonomous operation controller connects a plurality of monitoring apparatuses through a wireless local area network, and sets the monitoring apparatus as a relay point to constitute a communication network for all the monitoring apparatuses.

11. The autonomous operation control system according to claim 1 or 2, wherein the autonomous operation controller further includes a function of collecting information on the photographic subject by giving an instruction to the monitoring apparatuses disposed at a plurality of locations to photograph same location simultaneously and to photograph the photographic subject from the multiple directions or to zoom in the photographic subject by using a zoom lens.

12. The autonomous operation control system according to claim 1 or 2, wherein the autonomous operation controller further includes

a plurality of control instruction groups for exercising different controls executed by the autonomous operation controller for different operations, respectively, and

a function of recording the control instruction groups in an arbitrary recording device connected to a network.

13. The autonomous operation control system according to claim 12, wherein the autonomous operation controller further includes a function of allowing a system administrator or a user to input the control instruction groups controlled by the autonomous operation controller from a second remote location through the Internet.

14. The autonomous operation control system according to claim 1 or 2, wherein the autonomous operation controller further includes

a function of handling a group of control instructions generated in advance as one macro instruction, and

a function of combining the macro instruction into a plurality of macro instructions to execute.